

QUERY CONTROL FORM			RTIS USE ONLY		
Application No.	10/075,432	Prepared by	CCH	Tracking Number	05873966
Examiner-GAU	Ullah-2874	Date	1/7/03	Week Date	12/8/03
		No. of queries	1		TFW

SPECIFICATION		MESSAGE
a. Page Missing		<p><i>On Claim 2 ends with a semi-colon. Please correct</i></p>
b. Text Continuity		
c. Holes through Data		
d. Other Missing Text		
e. Illegible Text		
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CLAIMS		
a. Claim(s) Missing		<p><i>Thank you</i></p>
b. Improper Dependency		
c. Duplicate Numbers		
d. Incorrect Numbering		
e. Index Disagrees		
f. Punctuation		initials <i>COL</i>
g. Amendments		RESPONSE <i>Completed.</i>
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i. Missing Text		<i>4/7/04</i>
j. Duplicate Text		
k. Other		
		initials

What is claimed is:

1. An extendable four-port circulator comprising:

a middle birefringent crystal;

a first birefringent crystal;

5 a first non-reciprocal device coupled to the first birefringent crystal;

a second birefringent crystal;

a second non-reciprocal device coupled to the second birefringent crystal; and

wherein the middle birefringent crystal having

a first surface coupled to the first non-reciprocal device,

a second surface coupled to the second non-reciprocal device,

a third surface defining a first and a second extension interfaces, and

a fourth surface defining a third and a fourth extension interfaces.

2. The extendable four-port circulator of claim 1 further comprising

15 a first dual fiber collimator coupled to the first birefringent crystal and adapted to be coupled to a first fiber and a third fiber;

a second dual fiber collimator coupled to the second birefringent crystal and adapted to be coupled to a second fiber and a fourth fiber.

20 3. The extendable four-port circulator of claim 2 further comprising a first wedge placed at a position selected from the group consisting of:

a position between the first dual fiber collimator and the first non-reciprocal device, and

a position between the first non-reciprocal device and the middle birefringent crystal.

25 4 The extendable four-port circulator of claim 3 further comprising a second wedge placed at a position selected from the group consisting of:

a position between the second dual fiber collimator and the second non-reciprocal device,

and

a position between the second non-reciprocal device and the middle birefringent crystal.

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